

New York State Department of Transportation

Yellow Flag NB2222W011

By: Sahadeo Bhagwandin

Flag Date: April 29, 2022

Superseding Information:

This flag supersedes: YF NB2122W034

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: April 29, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Sahadeo Bhagwandin, P.E. 088239-1

Date: May 25, 2022

Reviewed By: Robert Kemp

Date: May 25, 2022

Attachments: 10

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 231			
	107 - Steel Open Girder/Beam	989	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB2228W011 supersedes Yellow Flag No. NB2122W034.

Location: Span 231, Girder G19 at Pier 230.

Description: The right clip connection angle at Girder G19 connection to the pier cap at Pier 230 exhibits a 4-1/2" L x 1/4" wide vertical corrosion crack at the lower fillet (no change from the previous inspection). At the upper fillet, the clip connection angle has a 5" L x 1/8" wide vertical crack (new). The left side vertical stiffener connection angle has a 4" L x 4" H L-shaped corrosion hole at the base (no change) and a 3-1/2" H x 3/4" W (previously 3-1/4"H x 1/2" wide) corrosion hole at mid-section just below the G19 web. In addition, the upper section of the left side connection angle has a 6" H x 1/8" W vertical corrosion induced crack (new). The surrounding area of the 4" x 4" L-shaped corrosion hole at the base has up to 60% section loss.

Notes:

- 1.The affected member, Girder G19 is a load path redundant steel girder consisting of a web depth of 21.30" and thickness of 0.608 inches and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk.
- 2.The adjacent Girder (left) G18, is 5'-5" on center has repair plates and is in fair condition.
- 3.The adjacent Stringer (right) S2, approximately 24" on center, acts as a support for the railing and curb area above exhibits a 5" L x 2" W corrosion hole at the left side bottom flange angle. An additional 5' of the bottom flange has knife edge corrosion with several corrosion holes (previously reported as 18" long).
- 4.A double lane closure on 3rd Avenue Eastbound between 26th and 25th street with shadow vehicle and a 35' bucket truck is required to access the flagged location.

Flag Photographs

Photo Number: 1

Photo Filename: Photo 1-5138 edit.jpg



Attachment Description: Photo 1 – Span 231, Girder G19 at Pier 230. General view of framing plan and Girder layout. Looking begin.

Photo Number: 2

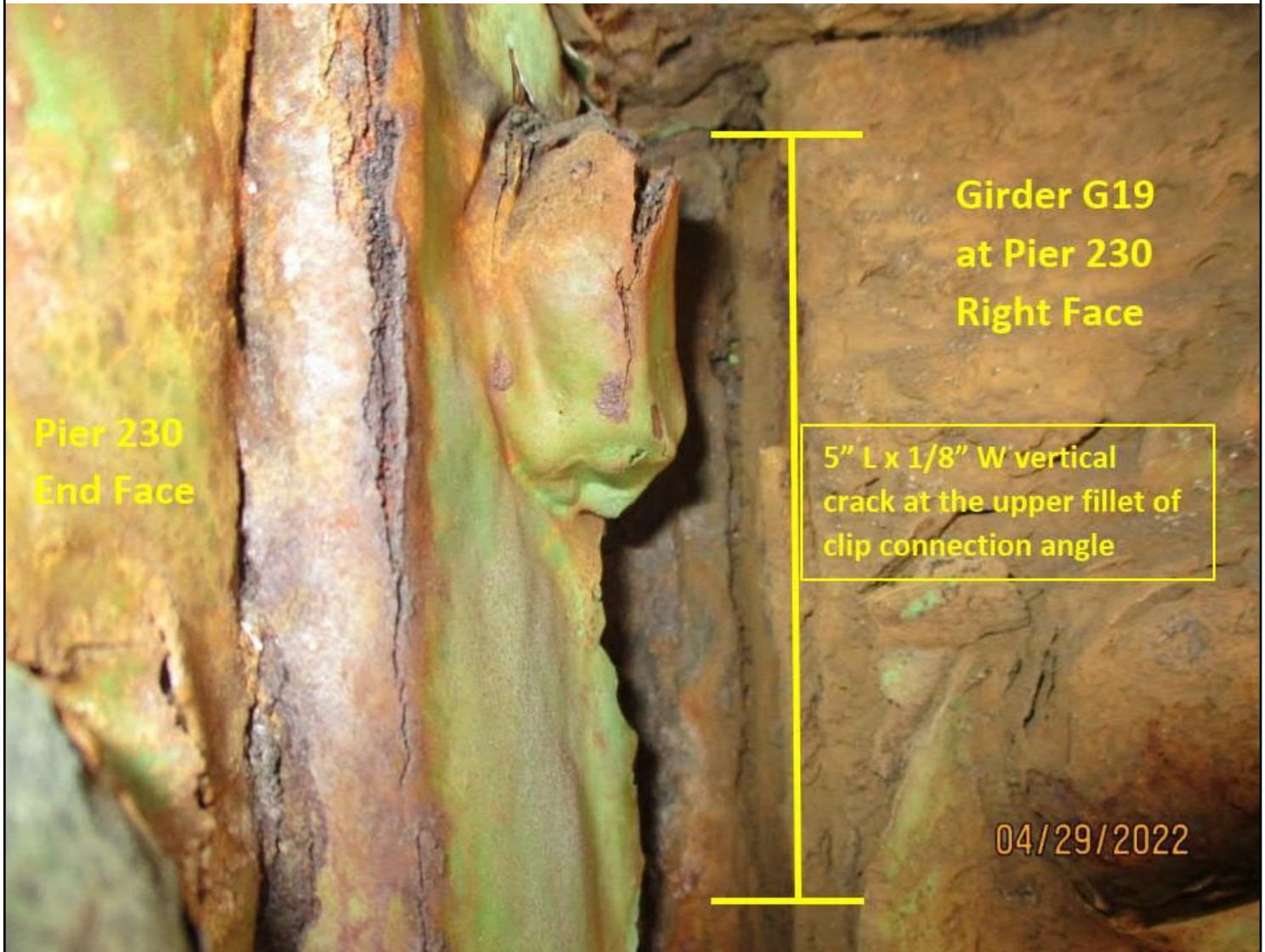
Photo Filename: Photo 2-5134 edit.jpg



Attachment Description: Photo 2 – Span 231, Girder G19 at Pier 230. General view of defect locations. Looking Left.

Photo Number: 3

Photo Filename: Photo 3-5122.jpg



Attachment Description: Photo 3 – Span 231, Girder G19 at Pier 230. Close-up view of showing a 5" long x 1/8" wide vertical crack at the upper fillet of right clip connection angle. Looking Left.

Photo Number: 4

Photo Filename: Photo 4-5100 edit.jpg



Attachment Description: Photo 4 – Span 231, Girder G19 at Pier 230. Close-up view of the flagged location showing a 4-1/2" long vertical crack x 1/4" wide at the lower fillet section. Looking Left.

Photo Number: 5

Photo Filename: Photo 5-5119.jpg



Attachment Description: Photo 5 – Span 231, Girder G19 at Pier 230. Close-up view of 6" long x 1/8" wide vertical crack at the upper fillet section of left connection angle. Looking Right.

Photo Number: 6

Photo Filename: Photo 6-5107.jpg



Attachment Description: Photo 6 – Span 231, Girder G19 at Pier 230. Close-up view of 3-1/2" long x 1/4" wide corrosion hole below web of G19 and 4" L x 4" H L-shape corrosion hole at the base of left stiffener connection angle. Looking Right.

Photo Number: 7

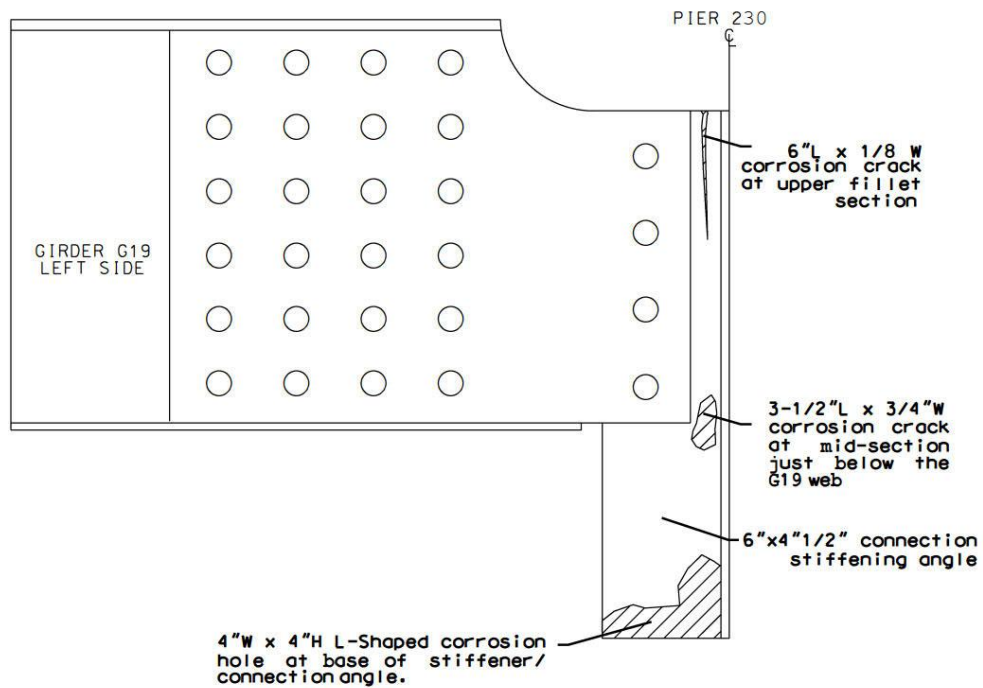
Photo Filename: Photo 7-5124.jpg



Attachment Description: Photo 7 – Span 231, Girder G19 at Pier 230. General view of defect locations at left side connection angle. Looking Right.

Photo Number: 8

Photo Filename: Left Face - Span 231 G19 at Pier 230 -edit .jpg

SPAN 231, GIRDER G19 AT PIER 230

LEFT SIDE OF GIRDER G19 AT PIER 230
SCALE: N.T.S.

Attachment Description: SN 231 G19 at Pier 230 Left Face Sketch

Photo Number: 9

Photo Filename: Right Face - Span 231 G19 at Pier 230 -edit .jpg

SPAN 231, GIRDER G19 AT PIER 230

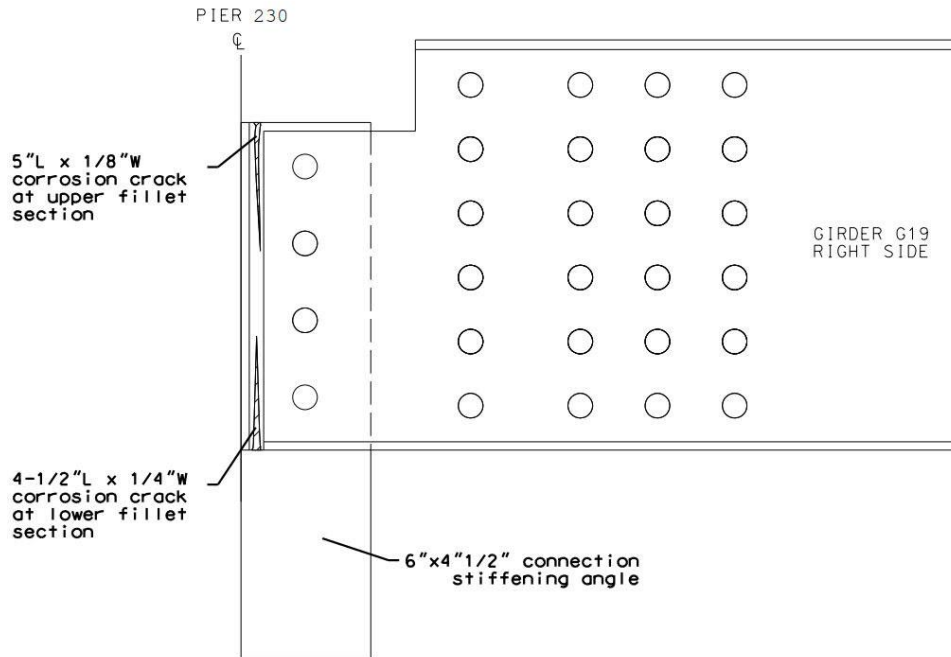
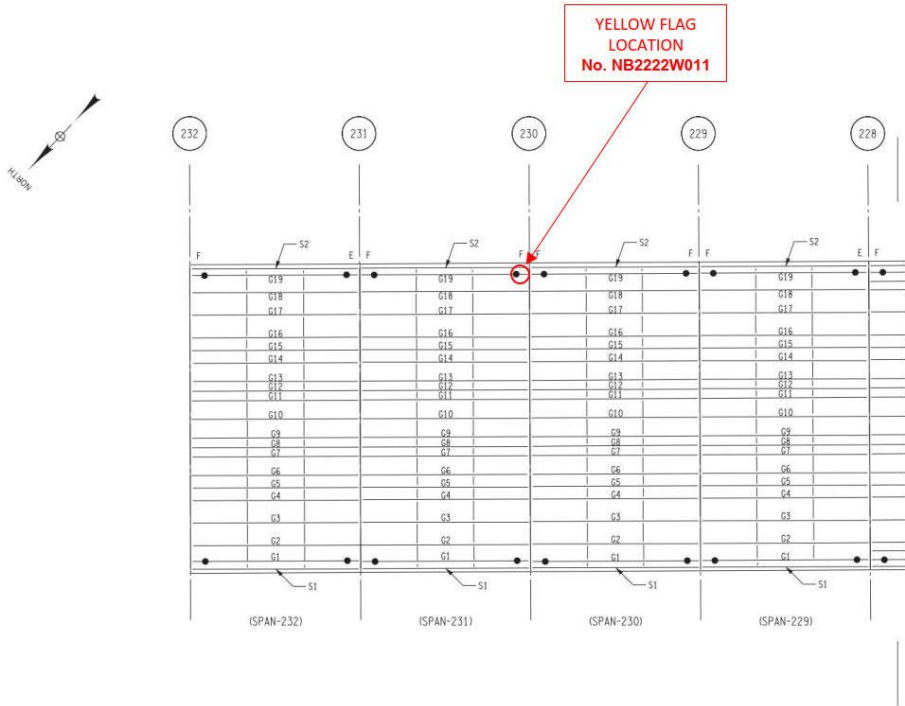
RIGHT SIDE OF GIRDER G19 AT PIER 230
SCALE: N.T.S**Attachment Description: SN 231 G19 at Pier 230 Right Face Sketch**

Photo Number: 10 Photo Filename: Span 231 G19 at Pier 230 Framing Plan-edit.jpg



Attachment Description: SN 231 G19 at Pier 230 Framing Plan